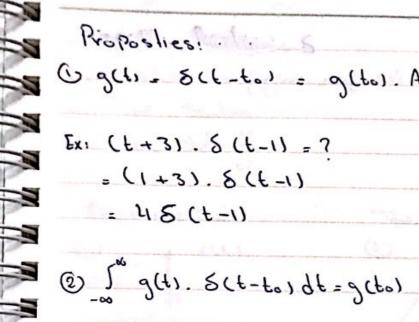


Proposties:



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A STATE OF THE PARTY OF THE PAR

Ex:
$$\int_{0}^{\infty} e^{-2(5-t)} \cdot \delta(2-t)$$

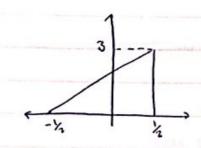
 $a = -1, b = 2$
 $= \frac{1}{1-1!} e^{-2(5-2)}$
 $= \frac{1}{1-1!} e^{-2(5-2)}$
 $= e^{-6} = *$

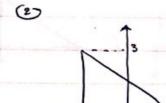
Ex: 52 (+1). 8(+1) = 0
only if the shift is out of the given range

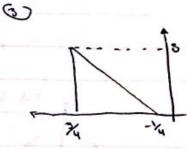
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a a a a a a a

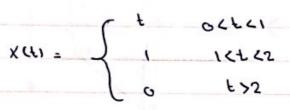


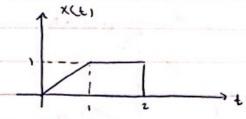




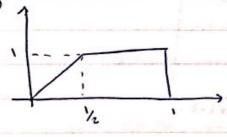


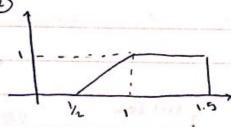
Given:





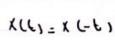
0



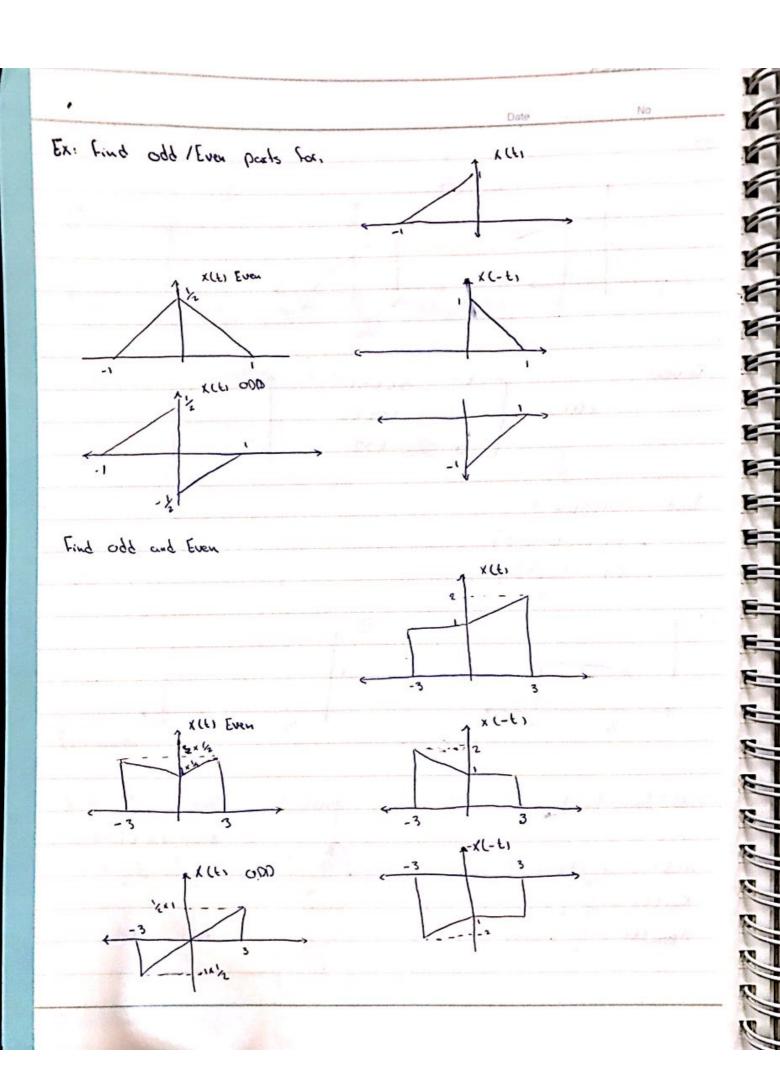


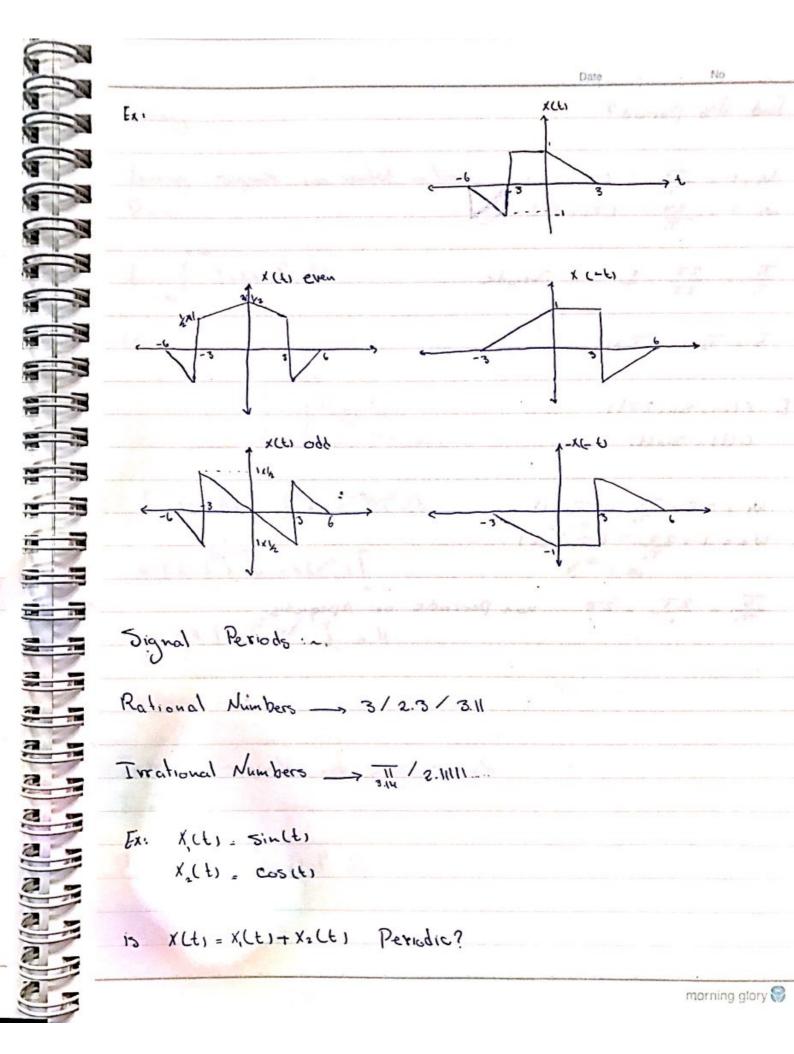
odd/ Even Function:

coscer









Find il's period?

$$W_{1.1} \cdot \frac{27}{11} \quad (7.27)$$
 $W_{1.1} \cdot \frac{27}{12} \quad (72:27)$

6

-

-

-

1

Date

No

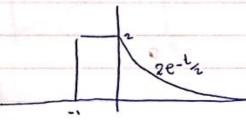
Energy.

Energy signals are limited in time

P=0

E = 5 1x(6)12. dt

Ex:



1 0 1212 Gt + 500 12e-+212 GF

= 4 (t 1°) - - 4 (e- 1) 1°

- - 4 [et-et] = 4

Power:

Periodic Signals are power signals

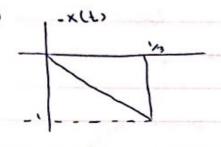
[= w

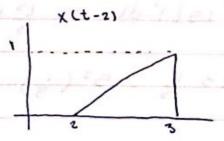
P = 1 - 5 1/2 (4)12. 16

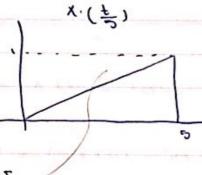
E

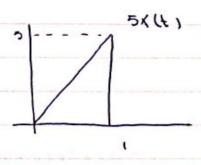












Find E

$$C = \int_{0}^{1} |f|^{2} df = \frac{f^{3}}{3} \int_{0}^{1} df$$

$$= \frac{G - (-1)}{3} = \frac{1}{3}$$

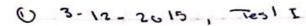
TT

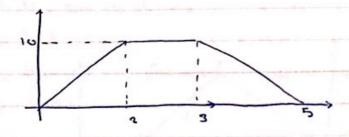
*Some answer in 0,6,6,6

*E E = 51 + 612. 84 =

$$-\frac{1}{25}(\frac{125-0}{3})=\frac{5}{3}=5(\frac{1}{3})$$

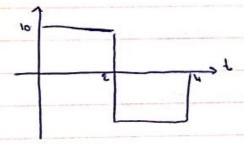
Qs of old tests!



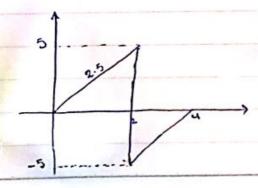


Express X (6) in terms of Ramp signals.

Skelch .



€ X(t) = 2.5x(t) - 2.5 x(t-4) - 164(t-2)



morning glory 🤝

5

Date

No

17-4-2014

X,(t) = Sin (2 Tt) +2 , X2(t) = 1 - 2 Sin(2 Tt)

- () find 13(1) = x, (1), x2(1) = 25120=[1-cos 20]
- @ Is X3 (t) periodic? Lind it's period?
- 3) Find a proper signal sizing of X3(1)?
- () x3(1) = 5in(2716) 25in2 (2716) + 2-45in (276)

X8 (1) = - 3 Sin (27161 1)+ 1 cos (476)

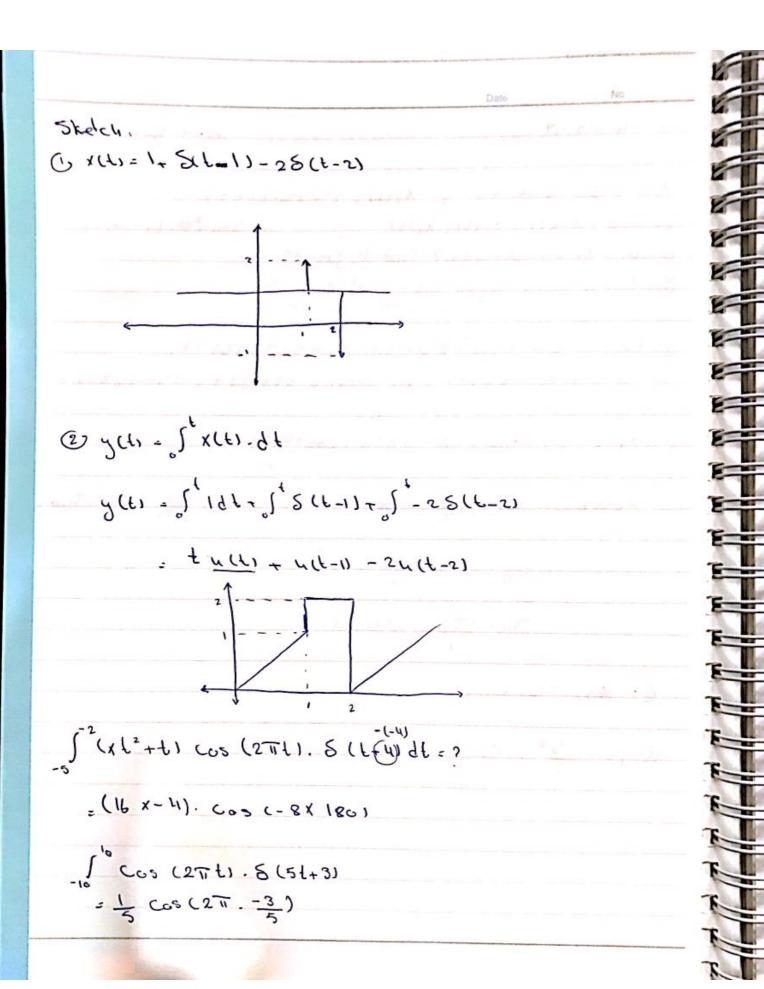
#3442 - W1 = 2T = 2T = T1=1 , W2 = 2T = 1 = T2=0.5

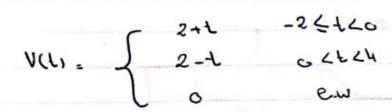
T1 20.5 2

To = 2 T3 = T,(1) = 1

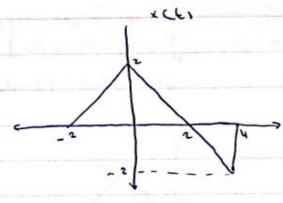
E Yes, To=1

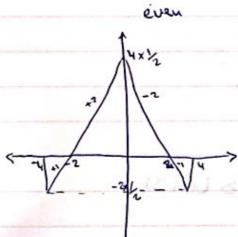
3) P= -32 + 12 + 12

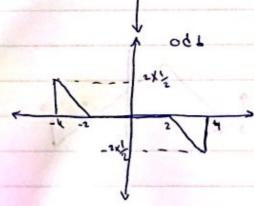


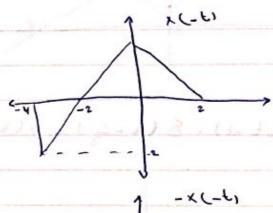


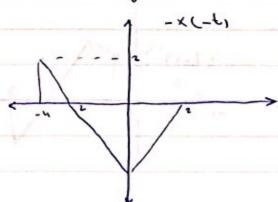
O Skelch Ulls odd leven

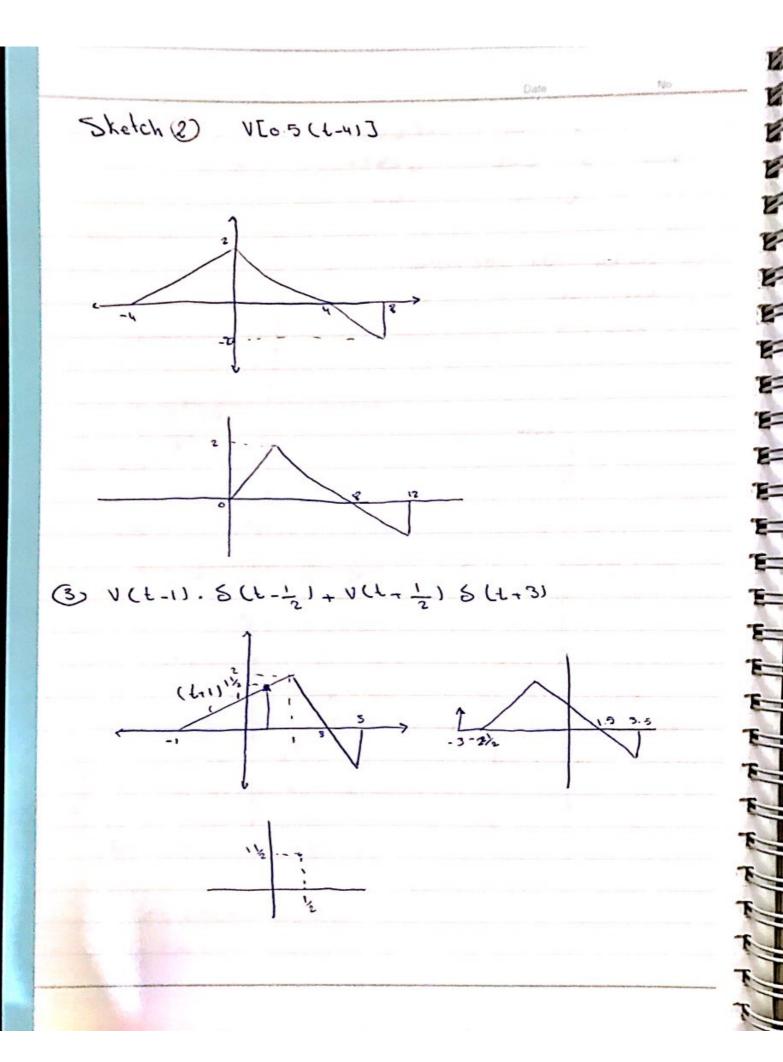


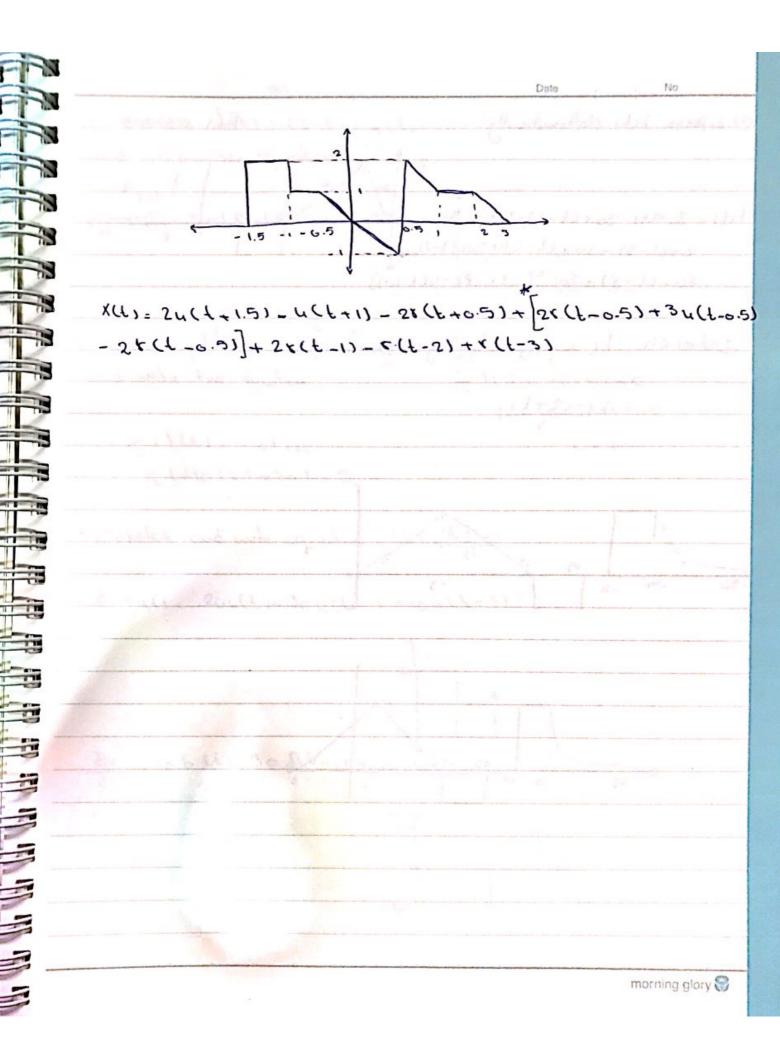












(3) Sketch ((E). 4(3-E)=q(1)

and write the equation.

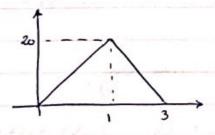
(4):20x(E) - 3xx(E-1) + 10x(E-3)

(5) Sketch | 5 ((E) , 5(2E-1) E

and write the equation.

= 1/2 x f(E) = -10 E+30

= 1/2 x f(E) = 5 3) sketch f(E) 4(3-6)=4(6)



@ sketch ! fell 8(56 - 1/1) 96 = 1/21 (1/2)

=

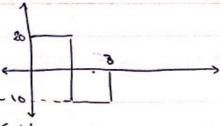
10

THE THE THE MEN WENT WENT WHEN THE

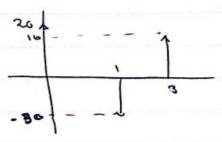
1 5(4) y = mx + C

(3) Sketch and write equation yet 1 = dyces

dy(1) = 204(61-304(6-1) +104(6-3)



= 208 (61-30 8C6-11+105(E3)



morning glory 😽

X,(61.20002 (31 - 11)

12(61 = u(6-15) -u(6-3) +u(6-6)-4(6-4)

Wind XICEI Line delay

@ Sketch Kolds - Villes. Kells

3) 16 XaCti Periodic?

Solution:

Recall -> cos 20 = 2 Cos20 - 1

Coso. Sin(0+ 17)

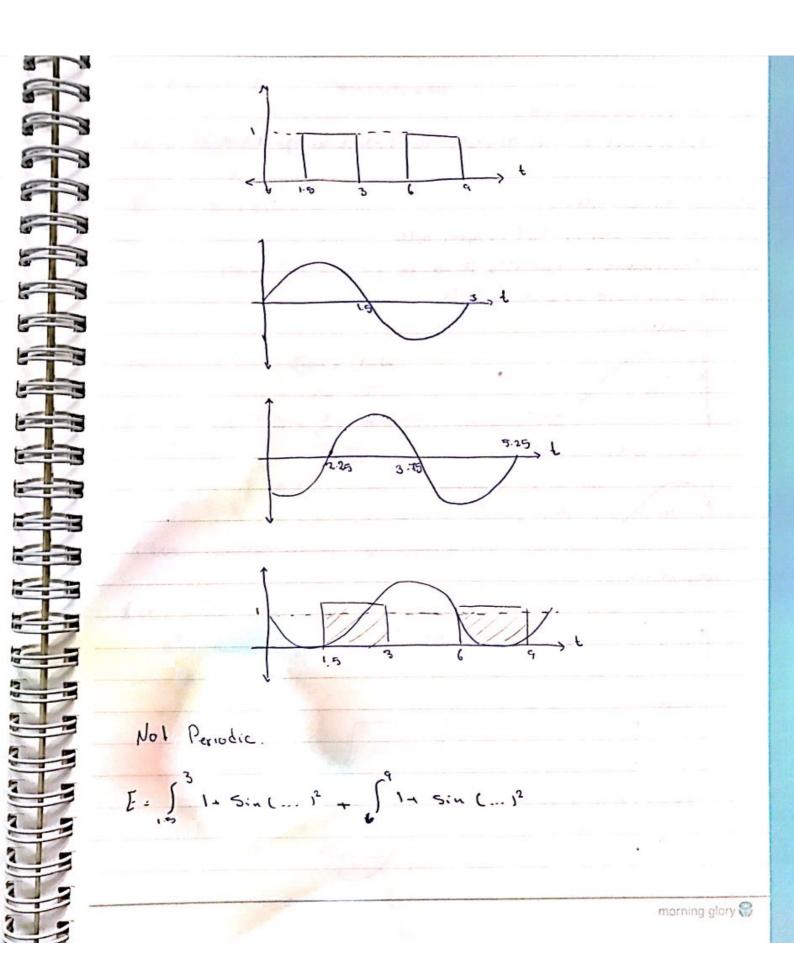
Cos20 + 1 = 2 Cos20

: X,(t) = 1+ COS[27 t-27]

= X(61=1+ Sm [2T 1-2T+T]

X,(4) = 1+ Sin [27 1-1.57]

Time delay $td = \frac{-\phi}{w_0} = \frac{-(-1.5\pi)}{2\frac{\pi}{3}} = 2.25$



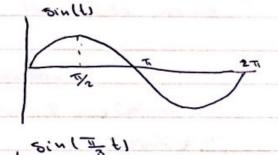
Date

No

20-11-2014

1/2 (t) = 4(t-3)-4(t-9)+4(t-10.5)-4(6-10.5)-4(t-13.5)

- (Find to of xill)
- @ Find and skedch X8 (1) . X, (1) . X2 (t)
- & is Xalls periodic? Find it's paid
- (1) Find a suitable measure of x3 (6)

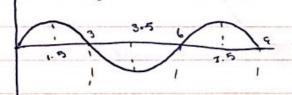


M=1 = 2

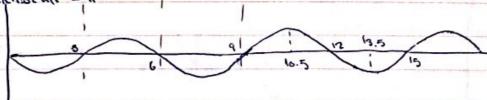
1 - 54

W. T. 27

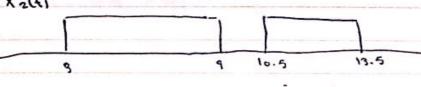
T= 6



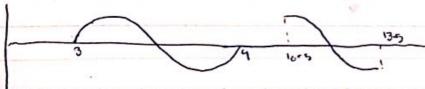
Vittsint - Ti



X 2(4)



13 (4) - K, U) . X2(4)



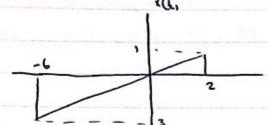
E

THE THE THE

$$=\frac{\Lambda^2}{2}$$

3-12-2015

Q. Test #1



Xeven - 12 (x16) + x (-6))

Lodd = 12 (x(6) - x (-6))

y = mx + C

x(6) = 12 6 + C

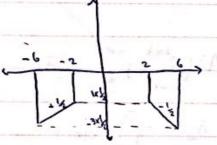
O find odd / Even

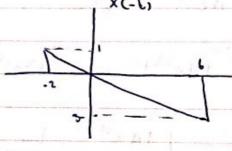
LL1 . 1 - 2 . - 1

@ Sketch xcg-361

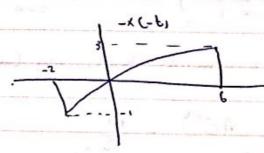
3 find suitable measure for 3x (1-1.5)

Even __6_





-6 -241



 $x = x = \frac{1}{2}$ $x = x = \frac{1}{2}$ $x = x = \frac{1}{2}$

5 time scalling 1 (}

